

Notice of Allowability

Application No.

09/929,323

Examiner

Habte Mered

Applicant(s)

CHONG ET AL.

Art Unit

2616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed on 5/22/2006.
2. ☒ The allowed claim(s) is/are 1-5,7-10,12-15,17,18 and 20.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☒ Other Attachment A-Claim Listings.

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Georgann S. Grunebach on 8/03/2006.

2. **Claims 12 and 17** have been amended as shown in Attachment A – Claim Listings.

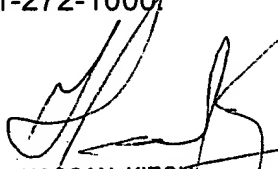
3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Habte Mered whose telephone number is 571 272 6046. The examiner can normally be reached on Monday to Friday 9:30AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou can be reached on 571 272 3088. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

HM
08-03-2006



HASSAN KIZOB
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600

Serial No. 09/929,323

PD-201134

ATTACHMENT A**AMENDMENTS TO THE CLAIMS:**

- 1) (Previously Presented) A computer implemented method for provisioning broadband service in a Point-to-Point Protocol over Ethernet (PPPoE) network, comprising:
 - providing a list of a plurality of internal domain names for an Internet Service Provider (ISP) to a modem;
 - generating an authentication request including a user identifier;
 - setting a destination address of the authentication request to all of the internal domain names on the list;
 - transmitting the authentication request from the modem to the destination address over a PPPoE network; and
 - receiving authorization for the modem from each of the internal domain names of the ISP associated with said user identifier, at least one said authorization including a static IP address reserved for the user so that for any subsequent PPPoE sessions established the user is always supplied with the same static IP address to establish connectivity to the Internet.
- 2) (Previously Presented) The method of claim 1, wherein each of said domain names is associated with a different Broadband Service Node (BSN) that receives the authentication request.
- 3) (Original) The method of claim 1, further comprising, prior to said transmitting step, the step of establishing a PPPoE session.
- 4) (Previously Presented) The method of claim 1, further comprising, prior to said transmitting step, the steps of:
 - requesting only a single user identifier from a user of a client computer;
 - receiving said user identifier; and
 - storing said user identifier in the modem.

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5) (Previously Presented) The method of claim 4, wherein said transmitting step comprises transmitting an authorization request containing said user identifier and a generic password to each of said multiple domain names.

6) (Cancelled)

7) (Previously Presented) The method of claim 1, further comprising:
transmitting a configuration request to the ISP, where said configuration request is addressed from said static IP address;
receiving full configuration details from said ISP, where said full configuration details are addressed to said static IP address; and
automatically configuring said modem based on said full configuration details.

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8) (Previously Presented) A system for provisioning broadband service in a Point-to-Point Protocol Over Ethernet (PPPoE) network, comprising:

at least one client computer;

a modem coupled to said client computer, said modem including a memory comprising:

a list of a plurality of internal domain names for an Internet Service Provider (ISP);

instructions for generating an authentication request including a user identifier;

instructions for setting a destination address of the authentication request to all of the internal domain names on the list;

instructions for transmitting the authentication request from said modem to the destination address over a PPPoE network; and

instructions for receiving authorization for the modem from each of the internal domain names of the ISP associated with said user identifier;

multiple Broadband Service Nodes (BSNs) coupled to said modem, where each of said listed internal domain names is associated with a different one of said multiple BSNs so that each listed BSN receives the authentication request; and

an authentication server coupled to each one of said multiple BSNs, said authentication server transmitting authorization for the modem for the internal domain names that are associated with the user identifier, at least one said authorization including a static IP address reserved for the user so that for any subsequent PPPoE sessions established the user is always supplied with the same static IP address to establish connectivity to the Internet.

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- 9) (Original) The system of claim 8, further comprising:
a Digital Subscriber Line Access Multiplexor (DSLAM) coupled between said modem and said BSNs;
an Asynchronous Transfer Mode (ATM) network coupled between said DSLAM and said BSNs; and
a Broadband Remote Access Server (BRAS) coupled between said ATM network and said BSNs.
- 10) (Original) The system of claim 8, wherein said BSNs are coupled to the Internet.
- 11) (Cancelled)
- 12) (Currently Amended) A modem for use in conjunction with a computer system for provisioning broadband service in a Point-to-Point Protocol Over Ethernet (PPPoE) network, the modem [including a memory] comprising:
A list of a plurality of internal domain names of an Internet Service Provider:

[instructions] means for generating an authentication request including a user identifier;

[instructions] means for setting a destination address of the authentication request to all of the internal domain names on the list;

[instructions] means for transmitting the authentication request from said modem to the destination address over a PPPoE network; and

[instructions] means for receiving authorization for the modem from each of the internal domain names of the ISP associated with said user identifier, at least one said authorization including a static IP address reserved for the user so that for any subsequent PPPoE sessions established the user is always supplied with the same static IP address to establish connectivity to the Internet.

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- 13) (Currently Amended) The modem of claim 12, further comprising:
[instructions] means for causing a client computer to request the user identifier;
and
[instructions] means for receiving the user identifier from the client computer
and storing the user identifier in the modem.
- 14) (Previously Presented) The modem of claim 12, wherein the list was hardcoded into the modem at the time of manufacture.
- 15) (Previously Presented) The modem of claim 12, wherein said receiving step comprises acquiring at least one static Internet Protocol (IP) address to establish connectivity to the Internet.
- 16) (Cancelled)
- 17) (Currently Amended) A modem for use in conjunction with a computer system for provisioning broadband service in a Point-to-Point Protocol Over Ethernet (PPPoE) network, the modem [including a memory] comprising:
[instructions] means for causing a client computer to request a user identifier;
[instructions] means for receiving the user identifier from the client computer
and storing the user identifier in the modem;
a list of a plurality of possible internal domain names to query for authorization for an Internet Service Provider (ISP);
[instructions] means for transmitting an authentication request including a user identifier from said modem to the internal domain names on the list over a PPPoE network; and
[instructions] means for receiving authorization for the modem from at least one of said domain names of the ISP associated with said user identifier and acquiring at least one static Internet Protocol (IP) address to establish connectivity to the Internet.

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18) (Previously Presented) A system for provisioning broadband service in a Point-to-Point Protocol Over Ethernet (PPPoE) network, comprising:

multiple Broadband Service Nodes (BSNs) of an internet service provider (ISP),
each said BSN associated with a different internal domain name;

an authentication server coupled to each one of said multiple BSNs, said
authentication server including a table that lists user identifiers against static IP
addresses;

at least one client computer; and

a modem coupled to said client computer, said modem including a memory
comprising:

instructions for requesting a user identifier from the client computer;

instructions for receiving the user identifier from the client computer and storing
the user identifier in said modem;

a list of a plurality of possible BSN internal domain names to query for
authorization for an ISP;

instructions for transmitting an authentication request including the user
identifier from said modem to the BSNs associated with the listed internal domain
names of the ISP over a PPPoE network ; and

instructions for receiving authorization for the modem and a static IP address
from at least one of said internal domain names of the ISP associated with said user
identifier;

said possible BSNs querying their authentication server to determine whether
the user identifier in the authentication request is listed in the table, if listed
authorization including the static IP address from at least one of said internal domain
names being transmitted back to the modem to establish connectivity to the Internet.

19) (Cancelled)

20) (Previously Presented) The method of claim 1, wherein the modem is hardcoded with
the list of internal domain names at the time of manufacture.

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